Claims

1. Package (1, 9, 20) for containing a plurality of products for heating, in particular food products (10, 23, 24, 25), comprising:
- a container (2), manufactured from a material for once-only use, provided with at least two compartments (4, 5, 6, 21, 22) shielded from the environment wherein the compartments (4, 5, 6, 21, 22) are separated medium-tightly from each other, and
- the individual compartments (4, 5, 6, 21, 22) are provided with passage openings (11, 12, 13, 15, 28, 29) for a medium for reducing overpressure in the package (1, 9, 20),

characterized in that the passage openings (11, 12, 13, 15, 28, 29) of the individual compartments (4, 5, 6, 21, 22) differ from each other such that overpressure in individual compartments (4, 5, 6, 21, 22) is maximized at different pressure levels.

2. Package (1, 9, 20) as claimed in claim 1, characterized in that the compartments (4, 5, 6, 21, 22) are shielded from the environment by making use of a material layer (3, 14, 27).

3. Package (1, 9, 20) as claimed in claim 1 or 2, characterized in that the passage openings (11, 12, 13, 15, 28, 29) are blocked prior to use of the package (1, 9, 20), and open under the influence of pressure in the compartments (4, 5, 6, 21, 22) .

4. Package (1, 9, 20) as claimed in any of the foregoing claims, characterized in that the passage openings (11, 12, 13, 15, 28, 29) are blocked prior to use of the package (1, 9, 20), and open under the influence of a determined temperature being exceeded.

5. Package (1, 9, 20) as claimed in any of the foregoing claims, characterized in that the separate passage openings (11, 12, 13, 15, 28, 29) are provided with pressure valves (11, 12, 13) acting at different pressure levels.

6. Package (1, 9, 20) as claimed in any of the foregoing claims, characterized in that the individual compartments (4, 5, 6, 21, 22) have passage openings (11, 12, 13, 15, 28, 29) with a total passage surface varying per compartment (4, 5, 6, 21, 22).

7. Package (1, 9, 20) as claimed in any of the foregoing claims, **characterized in that** the passage openings (11, 12, 13, 15, 28, 29) are blocked prior to use of the package (1, 9, 20) by means of a cover element (7, 16) fixed with an adhesive layer (17), wherein the adhesive layer (17) softens at a determined temperature.

8. Package (1, 9, 20) as claimed in claim 7, **characterized in that** a single cover element (7, 16) covers a plurality of passage openings (11, 12, 13, 15, 28, 29) and that weakened portions (18) are arranged in the cover element (7, 16) at the position of the passage openings (11, 12, 13, 15, 28, 29).

9. Package (1, 9, 20) as claimed in any of the claims 2-8, **characterized in that** passage openings (11, 12, 13, 15, 28, 29) are arranged in the material layer (3, 14, 27) with which the compartments (4, 5, 6, 21, 22) are shielded from the environment.

10. Package (1, 9, 20) as claimed in any of the foregoing claims, **characterized in that** passage openings (11, 12, 13, 15, 28, 29) are arranged in the container (2).

11. Assembly of a package (1, 9, 20) as claimed in any of the foregoing claims and a plurality of products, in particular food products (10, 23, 24, 25), placed in the individual compartments (4, 5, 6, 21, 22) .

12. Method for heating to different temperatures with a heating source a plurality of products for heating, in particular food products (10, 23, 24, 25), placed in a single container (2), by heating with a heating source the container (2) with a plurality of separated compartments (4, 5, 6, 21, 22) provided with the products for heating (10, 23, 24, 25), wherein an overpressure is created in the compartments (4, 5, 6, 21, 22) which is bounded by passage openings (11, 12, 13, 15, 28, 29) connecting onto the individual compartments (4, 5, 6, 21, 22)
characterized in that different passage openings (11, 12, 13, 15, 28, 29) of the individual compartments (4, 5, 6, 21, 22) maximize the pressure in different compartments at different pressures **thus occurring** different temperatures in the compartments (4, 5, 6, 21, 22).

13. Method as claimed in claim 12, **characterized in that** the container (2) is heated with a single heating source.

14. Method as claimed in claim 12 or 13, **characterized in that** the container (2) is placed in an oven.

15. Method as claimed in any of the claims 12-14, **characterized in that** after heating the compartments (4, 5, 6, 21, 22) are made accessible for a meal by detaching a material layer (3, 14, 27).